

# **COMPLETE VINEYARD (GRAPES) PACKAGE FOR FARMERS BY VST SHAKTI**





## INTRODUCTION



Agriculture is undergoing a gradual shift from dependence on human & animal power to mechanical power because of increased cost to maintain and feed the animal as well as increasing scarcity of human labour. However the Mechanical power is largely used by big land holding farmers and still beyond the reach of small / marginal holding farmers.

Thus there is an urgent and strong need for taking farm mechanization to the small and marginal land holding farmers who hold 80% of total India land holding. They are unable to own high end machine due to their economic condition. To increase and support mechanisation to this segment there is a need of affordable machinery which can work though out the year with low initial investment and less operational / maintenance cost. This kind of innovative farm machinery package can bring mechanization and also make agriculture more sustainable & profitable. The expanded usage of internet and TV has also influenced the farmers to adapt mechanization.



## MISSION & OBJECTIVES



- Increasing the reach of farm mechanization at affordable cost to small and marginal farmers and to the regions where availability of farm power is low.
- Offsetting adverse 'economies of scale' and 'higher cost of ownership' of high value farm equipment by promoting Innovative complete crop solution at affordable initial investment
- Passing on the benefit of hi-tech, high value and hi-productive agricultural machinery to farmers through creating hubs for such farm equipment.
- Promoting farm mechanization by creating awareness among stakeholders through demonstration and capacity building activities.
- Making agriculture as a profitable business.



VST SHAKTI

VST Company has introduced an innovative & affordable complete vineyard package for farmers. The package will cover the complete process, agricultural implements required, key benefits of using VST Shakti tractors for cultivation and economics of vineyard farming through rural young entrepreneurs.







## WHY VST SHAKTI TRACTORS ARE MOST SUITABLE FOR VINEYARD CULTIVATION



- It is India's First Small, 4 Wheel Drive Tractor – A compact proven model.
- Light in Weight, Less Vibration with 3 cylinder engine.
- Rotary widths: 900 mm (2.9 ft) & 1100 mm (3.6 ft)
- Turning Radius : With Brake 2.1 m (6.9 ft); Without Brake 2.5 m (8.2 ft)
- Best for Inter cultivation – 1.2 m (4ft), 1.5 m (5 ft) & 1.8 m (6 ft) row spacing.
- Unique Japanese design; Wide network availability for Service & Spares, Good Resale Value.
- Less Soil compaction; Very Good Tilling; 25% increase in yield and Field Operation.
- Established Brand name with decades of good will among the Farming Community.
- Gear Box is best designed to match our Rotary.
- Lasts for a lifetime.





## FIELD PREPARATION

### ROTARY

- Simple in construction with robust design, appropriate for medium soil conditions
- The application includes : Soil conditioning, weed control, seedbed preparation & puddling in wet land.
- Most suitable for large & medium farmers and field preparation for wet and dry land crop.
- 28 tynes can be fitted – J type for wet and L/straight for dry land.
- 2.5 ~ 3 acres of land can be covered in a day with average diesel consumption of 2.25 ~ 2.5 lts / hr
- Depth of Tilling is 100 (3.9 inches) ~ 125 (4.9 inches) mm.
- Available in 2 widths - 900 mm (2.9 ft) & 1100 mm (3.6 ft)

### REVERSIBLE PLOUGH

- This is well designed for ploughing.
- Basic functions are inverting, breaking and raising of soil.
- Can be used in tough conditions
- Tills the soil which has deep roots, unwanted plants, shrubs and weeds.
- Ease of rotating manually using a lever and wire rope.
- Shares are made of tough alloy steel, can be moved forward as and when wear takes place due to usage in field
- Long life is assured as 4 ploughs will be used alternately
- 5 ~ 6 acres of land can be ploughed in a day
- Diesel consumption is 1.5 ~ 1.75 lts / hr





## SPRAYING



- Sprayer is used for spraying pesticides and insecticides for pest control.
- A variety of sprayers are available to suit the field size and farmers' budget.
- Covers about 1.5 ~ 3 acres per hour of operation depending on the sprayer used.
- High pressure mist formation is possible with proper setting of nozzles resulting in uniform spraying.
- Diesel consumption is about 2.75 lts / hr of operation.







## INTER CULTIVATION

### DE-WEEDING / LEVELLING

- Rigid / Spring Loaded cultivator is used for tilling soil.
- Heavy duty spring cultivator is designed to withstand toughest working condition.
- High strength, rigid and tough in construction.
- Depth of cultivation can be adjusted with top link of 3 point linkage.
- 7/5 tynes are provided in both rigid & spring type cultivators.
- The Leveler helps in levelling the field as well as making a bund to strengthen the roots.
- 3 ~ 4 acres of land can be cultivated in a day with average diesel consumption of 2 ~ 2.5 lts / hr.







## HAULAGE



- Trailer of 3 tons capacity can be fitted for transportation.
- Primarily useful for transporting manure, chemicals, implements, bunches of grapes etc
- Types of Trailers:
  - Standard – 2.43 x 1.37 x 0.61 meter (8 x 4.5 x 2 feet) (L x W x H)
  - Mechanical Tipping as well as hydraulic tipping.
  - Water tanker of capacity 2000 ltrs can be fitted for carrying water.
  - Average consumption of diesel is 2.5 lts / hr





## INVESTMENT



SL. NO.	IMPLEMENTS	INDICATIVE PRICE* (Rs.)
1	VST Shakti VT 224-1D AJAI 4WB Tractor	3,70,000
2	Cultivator	18,269
3	Rotary	45,000
4	Reversible MB Plough	23,325
5	Leveller	12,225
6	Sprayer Grape Gold 250 lts	1,35,000
7	Trailer	85,000
	<b>Total Cost</b>	<b>6,88,819</b>

\* As on June 2016



## INVESTMENT (WITH DIFFERENT SPRAYER SYSTEMS)

SL. NO.	IMPLEMENTS	IND. PRICE* (Rs.)	IND. PRICE* (Rs.)	IND. PRICE* (Rs.)	IND. PRICE* (Rs.)	IND. PRICE* (Rs.)	IND. PRICE* (Rs.)
1	VST Shakti VT 224-1D AJAI 4WB Tractor	3,70,000	3,70,000	3,70,000	3,70,000	3,70,000	3,70,000
2	Cultivator	18,269	18,269	18,269	18,269	18,269	18,269
3	Rotary	45,000	45,000	45,000	45,000	45,000	45,000
4	Reversible MB Plough	23,325	23,325	23,325	23,325	23,325	23,325
5	Leveller	12,225	12,225	12,225	12,225	12,225	12,225
6	Sprayer	1,35,000	1,55,000	2,40,000	4,55,780	6,43,750	1,95,09,350
7	Trailer	85,000	85,000	85,000	85,000	85,000	85,000
	<b>Total cost</b>	<b>6,88,819</b>	<b>7,08,819</b>	<b>7,93,819</b>	<b>10,09,599</b>	<b>11,97,569</b>	<b>2,00,63,169</b>

8	Sprayer Models	Grape Gold Back 250 lts	Grape Gold Front 250 lts	MITRA GRAPE MASTER 200 lts	MITRA GRAPE MASTER 600 lts BLAST	CIMA 200 lts	ESS 200 lts
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\* As on June 2016





## TRACTOR MANUFACTURING PLANT AT HOSUR



VST SHAKTI



**V.S.T. TILLERS TRACTORS LTD.**  
( CIN-L34101KA1967PLC001706 )

**Hosur Plant :** Plot No.39, Phase-1, Sipcot  
Industrial Complex, Mookandapalli,  
HOSUR – 635 126, Tamil Nadu.

**Regd. Office :** Plot No. 1, Dyavasandra Indl.  
Layout, Whitefield Road, Mahadevapura  
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